

STRIPPER GUIDE BUSHINGS

—FOR BALL CAGES—

RoHS **SGBBW** (Thick wall, Loctite adhesive type)

RoHS **SGBBS** (Loctite adhesive type)

RoHS **SGBBH** (Loctite adhesive type)

d	D	Catalog No.		L	Base unit price 1~9 pieces
		Type	PD		
17	24	SGBBW	13	30 35	Quotation
20	28		16	35 40	
26	34		20	40 45 50	
31	40		25	45 50 60	

d	D _{H4}	Catalog No.		L	Base unit price 1~9 pieces
		Type	PD		
14	18	SGBBS	10	20 25 30	Quotation
17	22		13	20 25 30	
20	26		16	25 30 35	
26	31		20	25 30 35 40	
31	37	25	35 40		

d	D _{H4}	Catalog No.		L	Base unit price 1~9 pieces
		Type	PD		
14	18	SGBBH	10	20 25 30	Quotation
17	22		13	20 25 30	
20	26		16	25 30 35	
26	31		20	25 30 35 40	
31	37	25	35 40		

PD=Post diameter

Order Catalog No. — L
SGBBW 16 — 35

Days to Ship Quotation

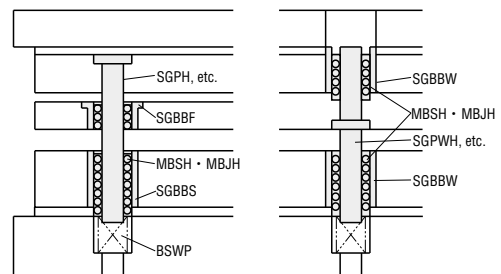
Alterations Catalog No. — L(LC) — (DLC) Quotation
SGBBH 16 — LC25.5

Price Quotation

Alteration Code	L dimension change		Addition of grooves for Loctite																																										
	LC	DLC																																											
Spec.	<p>● SGBBW</p> <table border="1"> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> </tr> <tr> <td>13</td> <td>25.0 ≤ LC < L</td> <td rowspan="5">0 -0.2</td> </tr> <tr> <td>16</td> <td>30.0 ≤ LC < L</td> </tr> <tr> <td>20</td> <td>35.0 ≤ LC < L</td> </tr> <tr> <td>26</td> <td>40.0 ≤ LC < L</td> </tr> <tr> <td>31</td> <td>45.0 ≤ LC < L</td> </tr> </table>	PD	LC	0.1mm increments	13	25.0 ≤ LC < L	0 -0.2	16	30.0 ≤ LC < L	20	35.0 ≤ LC < L	26	40.0 ≤ LC < L	31	45.0 ≤ LC < L	<p>● SGBBS</p> <table border="1"> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> </tr> <tr> <td>10</td> <td>15.0 ≤ LC < L</td> <td rowspan="5">0 -0.2</td> </tr> <tr> <td>13</td> <td>15.0 ≤ LC < L</td> </tr> <tr> <td>16</td> <td>20.0 ≤ LC < L</td> </tr> <tr> <td>20</td> <td>20.0 ≤ LC < L</td> </tr> <tr> <td>25</td> <td>30.0 ≤ LC < L</td> </tr> </table>	PD	LC	0.1mm increments	10	15.0 ≤ LC < L	0 -0.2	13	15.0 ≤ LC < L	16	20.0 ≤ LC < L	20	20.0 ≤ LC < L	25	30.0 ≤ LC < L	<p>● SGBBH</p> <table border="1"> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> </tr> <tr> <td>10</td> <td>15.0 ≤ LC < L</td> <td rowspan="5">0 -0.2</td> </tr> <tr> <td>13</td> <td>15.0 ≤ LC < L</td> </tr> <tr> <td>16</td> <td>20.0 ≤ LC < L</td> </tr> <tr> <td>20</td> <td>20.0 ≤ LC < L</td> </tr> <tr> <td>25</td> <td>30.0 ≤ LC < L</td> </tr> </table>	PD	LC	0.1mm increments	10	15.0 ≤ LC < L	0 -0.2	13	15.0 ≤ LC < L	16	20.0 ≤ LC < L	20	20.0 ≤ LC < L	25	30.0 ≤ LC < L
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Example **Features**

- SGBBW**: The thick wall results in higher rigidity.
- SGBBS**: Can be combined with any type of stripper guide pin. (The same applies to SGBBW.)
- SGBBH**: Can be combined with any type of stripper guide pin. (The same applies to SGBBW.)



BALL CAGES / SPRINGS FOR BALL CAGES

RoHS

① **MBSH** (High rigidity aluminum ball cage)
② **MBJH** (High rigidity resin ball cage)

① A5056 (Aluminum)
② POM (Polyacetal resin)
③ SUJ2 Sphericity 0.25 μm
④ ③62~67HRC

D	D ₁	Ball diameter d	Catalog No.		L	Base unit price for 1~9 pieces	
			Type	PD		MBSH	MBJH
13.7	10.3	2	MBSH (Aluminum) MBJH (Resin)	10	25 30 35	Quotation	
16.7	13.3	2		13	25 30 35		
19.7	16.3	2		16	30 35 40		
25.5	20.5	3		20	30 35 40 45		
30.5	25.5	3		25	35 40 45 50		

Other L sizes are available for PD20~25. **P.934**
PD=Post diameter

Order Catalog No. — L
MBJH 20 — 45

Days to Ship Quotation

Price Quotation

Alterations Catalog No. — L(LC)
MBJH 20 — LC 42

Quotation

Alteration	Code	Spec.	1Code
	LC	Full length change 1mm increments 20 ≤ LC < L Ball holes may remain on the cut surface.	Quotation

RoHS

BSWP (Spring for ball cage)

SWP-B

D	D ₁	d	P	Catalog No.		FL	Base unit price 1~9 pieces
				Type	PD		
11.7	10.5	0.6	5	BSWP (For ball cage)	10	30~80	Quotation
14.9	13.5	0.7	6		13	30~80	
18.3	16.5	0.8	12		16	30~90	
22.5	20.5	1.0	14		20	35~90	
27.9	25.5	1.2	14		25	40~90	

Order Catalog No. — FL
BSWP 20 — 80

Days to Ship Quotation

Price Quotation

Type	PD	Spring solid height (mm) / Spring constant (g/mm)															
		FL (Free length)															
		30	35	40	45	50	55	60	65	70	75	80	85	90			
BSWP	10	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8					
		16	14	12	11	9	9	8	7	7	6	6					
	13	4.9	5.4	6.1	6.6	7.2	7.8	8.4	8.9	9.6	10.1	10.7					
		17	15	13	11	10	9	8	8	7	7	6					
	20	3.2	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.3	5.6	5.8	6.1	6.4			
32		26	23	22	20	19	16	15	14	13	12	11					
4.7		5.0	5.3	5.6	5.8	6.0	6.5	7.0	7.4	7.7	8.1	8.5					
25	40	35	31	28	26	23	22	20	19	18	16	15					
	6.0	6.3	6.6	7.0	7.4	7.9	8.4	8.7	9.0	9.3	9.6						
		38	34	30	28	25	24	22	20	19	18	17					

Upper: Solid height
Lower: Spring constant